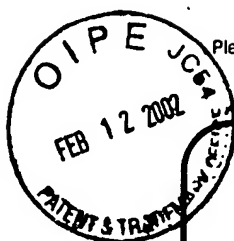


COPY OF PAPERS
ORIGINAL FILED



Please type a plus sign (+) inside this box → ☐

PTO/SB/21 (6-98)
Approved for use through 09/30/2000. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1>TRANSMITTAL FORM</h1> <p>(to be used for all correspondence after initial filing)</p>		Application Number	10/004,773
		Filing Date	December 4, 2001
		First Named Inventor	Stuart T. Linsky
		Group Art Unit	2631
		Examiner Name	Not Assigned
Total Number of Pages in This Submission	14	Attorney Docket Number	22-0145

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Affidavit <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declarations(s) <input type="checkbox"/> Extension Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy Priority Document(s) <input checked="" type="checkbox"/> Response to Missing Parts/Incomplete Application <input checked="" type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (transfer application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Reopening Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> Petition Convert to Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Reexamination	<input type="checkbox"/> After Allowance Communication <input type="checkbox"/> Appeal Communication Board Appeals and Interventions <input type="checkbox"/> Appeal Communication Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below): <div>See 1 in Addendum</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Noel F. Heal; Reg. No. 26,074
Signature	<i>Noel F. Heal</i>
Date	1/29/02

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: 01/29/2002			
Typed or printed name	Marilyn L. Beaumont	Date	1/29/02
Signature	<i>Marilyn L. Beaumont</i>	Date	1/29/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Attachment to (PTO/SB/21) Transmittal Form (continued)

1. **Completion of Filing Requirements in Duplicate**
Declaration
Copy of Notice to File Missing Parts
Request for Correction of Filing Receipt
Copy of Filing Receipt

3
COPY OF PAPERS
ORIGINALLY FILED

PATENT

Practitioner's Docket No. 22-0145



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Linsky, Stuart T.

Application No.: 10/004,773

Group No.: 2631

Filed: December 4, 2001

Examiner: Not Assigned

For: MULTI-PASS PHASE TRACKING

LOOP WITH REWIND OF FUTURE WAVEFORM

IN DIGITAL COMMUNICATION SYSTEMS

Box Missing Part

Assistant Commissioner for Patents

Washington, D.C. 20231

COMPLETION OF FILING REQUIREMENTS
-- NONPROVISIONAL APPLICATION

I. This replies to the Notice to File Missing Parts of Application (PTO-1533) mailed January 2, 2002.

A copy of the Notice to File Missing Parts of Application--Filing Date Granted (Form PTO-1533) is enclosed.

DECLARATION OR OATH

II. The declaration or oath that was filed was determined to be defective. A new original oath or declaration is attached.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. SECTION 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

[X] deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: January 29, 2002

FACSIMILE

[] transmitted by facsimile to the Patent and Trademark Office at (703) ____ - ____.

Signature

Marilyn L. Beaumont
(type or print name of person certifying)

COMPLETION FEES

III. Surcharge Fees

Late payment of filing fee and/or late filing of original declaration or oath (37 C.F.R. Section 1.16(e)) - \$130.00

Total Completion Fees \$130.00

EXTENSION OF TIME

IV. The proceedings herein are for a patent application, and the provisions of 37 C.F.R. Section 1.136(a) apply.

Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

TOTAL FEE DUE

V. The total fee due is:

Completion fees	\$130.00
Extension fee (if any)	\$0.00
Total Fee Due	\$130.00

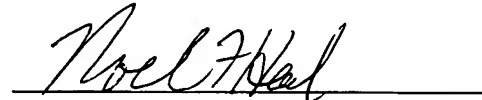
PAYMENT OF FEES

VI. Charge Account No. 20-1515 in the amount of 130.00.

A duplicate of this request is attached.

Please charge Account No. 20-1515 for any fees that may be due by this paper.

Date: January 29, 2002



Noel F. Heal
Registration No. 26,074
TRW INC.
Intellectual Asset Management
One Space Park, E2/6051
Redondo Beach, CA 90278
310-812-4910

#4
Receipt



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PARENT APPLICATION OF:

Inventor: Stuart E. Linsky, et al.

Serial Number: 10/004,773

Filed: December 4, 2001

For: MULTI-PASS PHASE TRACKING
LOOP WITH REWIND OF FUTURE WAVE-
FORM IN DIGITAL COMMUNICATION
SYSTEMS

DOCKET NO. 22-0145

REQUEST FOR CORRECTION OF FILING RECEIPT

Honorable Commissioner for Patents
Office of Initial Patent Examination
Customer Service Center
Washington, D.C. 20231

Sir/Madam:

Applicant respectfully requests correction of the Filing Receipt for the
above-identified application (see attached Filing Receipt). Please correct
APPLICANT'S ADDRESS and TITLE as follows:

Christopher W. Walker, **Stevenson** Ranch, CA

MULTI-PASS PHASE TRACKING LOOP WITH REWIND OF FUTURE
WAVEFORM IN DIGITAL **COMMUNICATION** SYSTEMS

Respectfully Submitted,

Dated: January 29, 2002

By

Noel F. Heal
Reg. No. 26,074

TRW Inc.
Intellectual Asset Management
One Space Park, E2/6051
Redondo Beach, CA 90278
Tele: (310) 812-4910
Fax: (310) 812-2687



COPIES
ORIGINALY FILED
COPY OF PAPER
ORIGINALY FILED

Page 1 of 1

#3

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/004,773	12/04/2001	Stuart T. Linsky	22-0145

30050
PATENT COUNSEL, TRW INC.
S & E LAW DEPT.
ONE SPACE PARK, BLDG. E2/6051
REDONDO BEACH, CA 90278

CONFIRMATION NO. 7966

FORMALITIES LETTER



OC000000007249295

Date Mailed: 01/02/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

02/15/2002 SZWDIE1 00000074 201515 10004773

FILED UNDER 37 CFR 1.53(b)

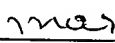
01 FD+105 130.00 CH

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

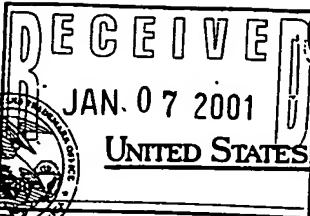
*A copy of this notice **MUST** be returned with the reply.*


Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

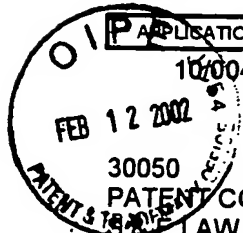
F

COPY OF PAPERS
ORIGINALLY FILED

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/004,773	12/04/2001	2631	848	22-0145	6	26	3



30050
PATENT COUNSEL, TRW INC.
LAW DEPT.
ONE SPACE PARK, BLDG. E2/6051
REDONDO BEACH, CA 90278

CONFIRMATION NO. 7966

FILING RECEIPT



OC000000007249294

ATSK 199:39471X00

Date Mailed: 01/02/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Stuart T. Linsky, Rancho Palos Verdes, CA;
Scott A. Cooper, Seattle, WA;
Christopher W. Walker, Stevens Ranch, CA;
Ali R. Golshan, Hawthorne, CA;

Stevenson

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 01/02/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Multi-pass phase tracking loop with rewind of future waveform in digital communication systems

communication

Preliminary Class

375

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).